



# Impacts of Irrigation on Regional Climate and Hydrology Variability

PI: Soroosh Sorooshian University of California, Irvine

NEWS Progress Report (2005-2006)

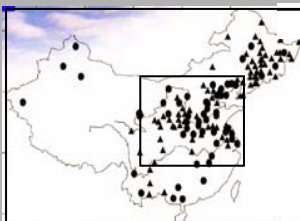


**Proposal Goal:** Investigate 1) influences of irrigation on regional hydroclimate, 2) capability of satellite remote sensing of irrigation-induced atmospheric and land surface changes and availability, and 3) sustainability of water resources in relation to irrigation.

## Model Study Examining the Influences of Irrigation on Regional Hydroclimate

### Model Study Region

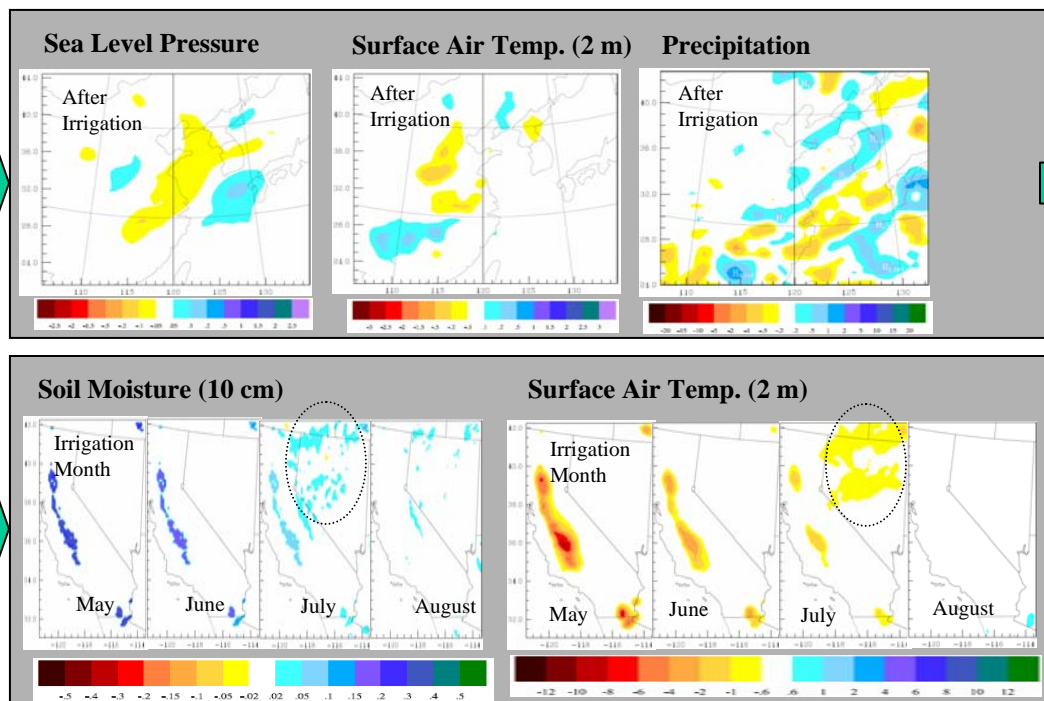
Large Scale Irrigation  
Central-Eastern China



Local Scale Irrigation  
Central Valley California



### Differences (Irrigation Minus No-Irrigation Runs) on Key Variables



Results show the propagation of irrigation influences towards the Ocean.

Results show the irrigation influences lasting two months.



Center for Hydrometeorology and Remote Sensing, University of California, Irvine